

# Cerence Exterior Vehicle Interaction

## Bringing industry-leading voice technologies outside the car

Cerence Exterior Vehicle Interaction is a new suite of AI and voice-powered innovations that enables drivers to interact with their cars from the outside. It brings together Cerence's industry-leading technologies – speech recognition, natural language understanding, text-to-speech, speech signal enhancement, and voice biometrics – with the growing number of exterior microphones on today's cars to create an entirely new interaction experience.

Cerence Exterior Vehicle Interaction is perfectly suited for the car of today and tomorrow. With ever-increasing levels of autonomy transforming the very definition of driving, Cerence is leveraging its expertise to create a new way for people to communicate with cars, both now and in the future.

## Features & Benefits



**Convenience** – voice technology has the power to simplify interaction both inside and outside the car. With Cerence Exterior Vehicle Communication, situations like needing to open the trunk when your hands are full instantly become easier.



**Safety & Security** – Cerence Exterior Vehicle Communication leverages biometric innovations, including Cerence Voice Biometrics, to limit certain capabilities to only approved people.



**Transformative technology** – extraordinarily useful for today's car owners and critical for the autonomous, shared vehicles of the future as communication and personalization become even more important.

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## USE CASES

### Today...

- As a driver approaches their car at night, unable to find the door handle, they can say, “Hey Cerence, turn on the light.”
- Parents taking their kids’ sports gear out of the car can ask, “Hey Cerence, close the trunk.”
- The same parents, when walking away from the car with bags in hand, may instruct their car, “Hey Cerence, park in this spot”
- When exterior speakers are present, drivers can communicate with people outside the car, for example at toll booths or drive-throughs, while keeping windows closed and remaining undisturbed in the safe and comfortable space of the car

### In the autonomous, shared future...

- Enable users to ask a shared, driverless vehicle for essential information like its planned route, anticipated delays, and more, helping to build trust in autonomous vehicles and increase adoption as users embrace a new mobility ecosystem.
- Validate the driver’s identity with Cerence Voice Biometrics, enabling shared vehicles to adapt to user preferences like radio stations, navigation favorites, and seat position.



Hey Cerence, open the trunk